

**CalESCO**

**CALIFORNIA EARTH SCIENCE CORPORATION**

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February 5, 1975

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*CR 142149*

Contract NAS 2-7698  
MONTHLY PROGRESS REPORT NO. 20  
January 1975

Fault Tectonics and Earthquake Hazards in the Peninsular Ranges,  
Southern California, EREP Investigation 463

NASA-Lyndon B. Johnson Space Center  
Technical Support Procurement Branch  
Houston, Texas 77058

Attention: Mrs. Ruth Elder, Mail Stop BB631 (B9)

Dear Mrs. Elder:

"Made available under NASA sponsorship  
in the interest of the  
semination of earth science Survey  
Program information without liability  
for any use made thereof."

California Earth Science Corporation (CalESCO) is pleased to submit its 20th  
Monthly Progress Report on the application of Skylab imagery to analysis of  
fault tectonics and earthquake hazards in the Peninsular Ranges, Southern  
California under NASA Contract No. NAS 2-7698.

Summary Outlook

The principal plans for the immediate future are to continue analysis of images  
from SL1/SL2 and SL3. The milestone plan provides a time-oriented schedule of  
the entire effort to be performed.

Significant Progress

1. A computer-generated gray scale has been completed for analysis of pseudo-color enhancement methods.
2. All S192 tapes received have been read and images generated without conical scan corrections.
3. Field work on the San Diego River lineament was completed. A series of en echelon faults have been mapped and right-lateral separation along some of the faults is demonstrable.

Expected Accomplishments, Current Month

1. Images, with conical scan corrections of selected channels, will be produced from S192 tapes.

(E75-10148) FAULT TECTONICS AND EARTHQUAKE  
HAZARDS IN THE PENINSULAR RANGES, SOUTHERN  
CALIFORNIA Monthly Progress Report, Jan.  
1972 (California Earth Science Corp., Santa  
Monica.) 2 p HC \$3.25

CSCL 68G G3/43

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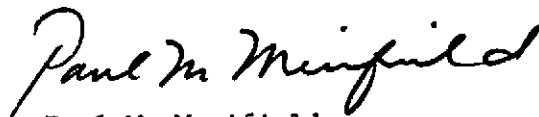
2. Pseudocolor transformations of computer-generated test charts will be produced.
3. Work on current technical reports will be continued.
4. Field work will be continued on the east-west trending lineaments in the Peninsular Ranges.
5. An abstract of significant results of the EREP investigation will be submitted to the Earth Resources Survey Symposium.

Travel Summary and Plans

Several days will be spent in the field near Ramona and Alpine, California.

Very truly yours,

CALIFORNIA EARTH SCIENCE CORPORATION



Paul M. Merifield  
Principal Investigator

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